

FIGURE 1

A



B

	Driver	Tester
<i>ppENK</i>		•
MICP15		•
MICP36		•
MICP27		•
MICP28		•
MICP29		•

FIGURE 2

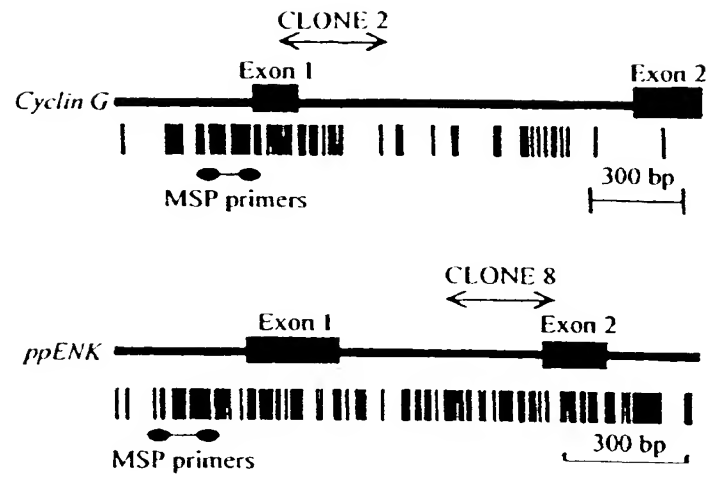


FIGURE 3

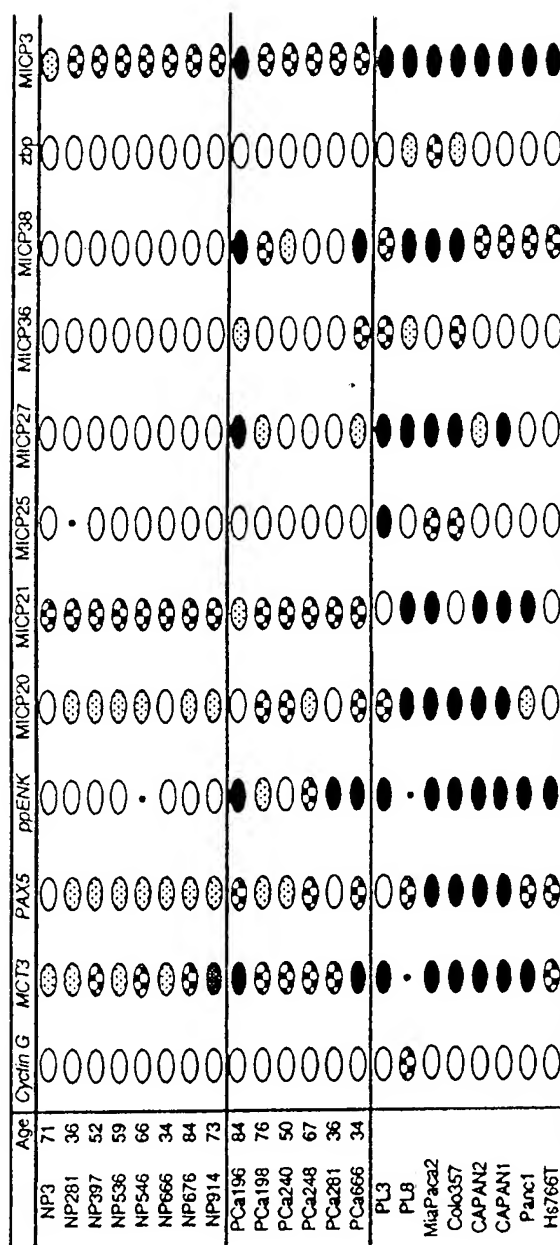


FIGURE 4

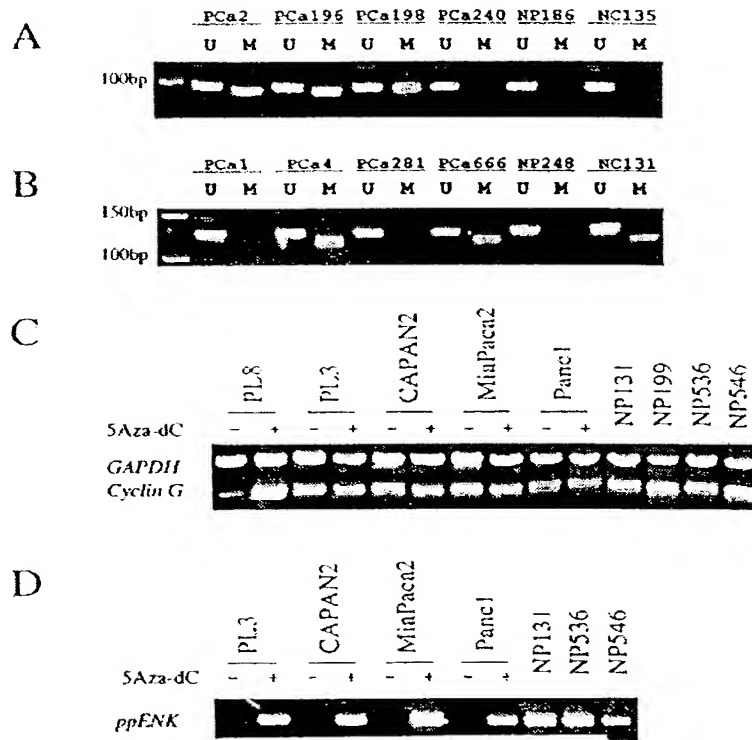


FIGURE 5

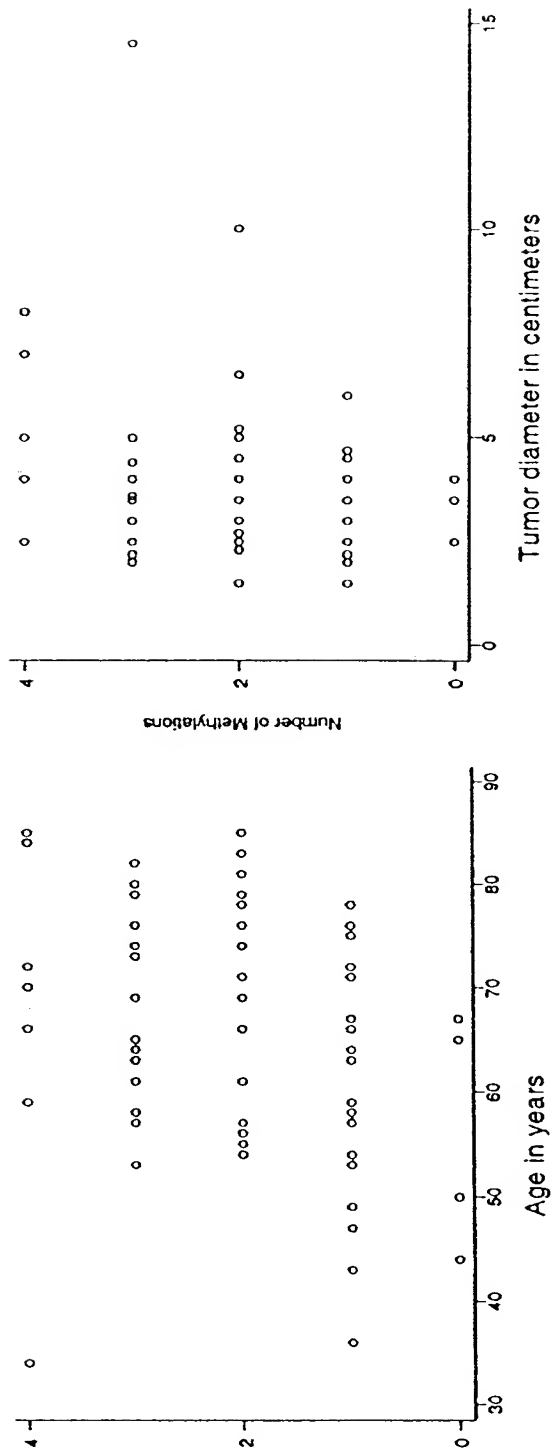


FIGURE 6a

PL3-17, CSX, MINT23 MICP1 (SEQ ID NO:1)

ccccggcgccccggccctggctcgcggaatggcgggccagatctcaggccctgcgtgcccagagctcagtcacagttccaaccgggg
gtgcccattggactctcgaggggcactcctggggggacagctaagacaccaggctgcaggatcactcaltgcacgctgcataatcgcc
gccacaaactctcccgtgcgcaagaacaaacgcgcgtgggacagaaaaagttcctaggtctccgcaggagtgaatgcaaaatccag
gggactcagggtcatgttgggagcccccttccccccgagagtcaggaggctgttgggtggggtcggtaggggtcgcgccacgcg
gttcccttccctaccaggctcgataccatgcagcgtggacactcccagttgctctcggaatcccggg

PL8-13 cyclinG micp2 (SEQ ID NO:2)

Cccggggagggtggttaccgtgaggagctgcagtcctgtcaagggtgagtgaggactgcgcgagagttgaccgccagtgccgggtg
gggagctgggttgggggcccggggcgaggagtaggtctggcccgccccctttccacactaaactctaccgctgttgtgagcacaag
cccaggctagtcagggtggaggggcgaggcggatccggccctctgaggtgccccttctgtctgccgaccagtcaccagggacta
gcttggggagggaagaatggaacccctgcagttagaggttccatgactagctctgaagacctctgcttctttagttggtgt
gggagggaccttccatgtatccagggttagcttgtccccggg

PL-3-12 MICP3 (298 bp, ECEL-1)(SEQ ID NO:3)

Cccggggagagctgacccggacaggggttccgaggaggtaaaggagctccctggtgaagggtgagctctgcgcaggcgtgtgc
gggcagcccaggcactccgtcagcgccctctcaatccttaggaggagtcctccctgggtggtgctccagggtgtgggctggaccat
gacggccccagctgcgtagctccagctccttccaaccgggtggtgggcggttccgagtggggacacgggatcgaggggactcct
gccgggtgtacccgctaccctcactagtcgccgggatgcg

PL3-9 309bp, micp4 gad1 AC007405 (SEQ ID NO:4)

Cccgggacagagagattgcgggctaattcgggtagatcgaggacccacagagaagggccaccggccatcgccctccacaccctc
cctccgacctcactcctagccccgcgcgcagtcgcacagcaactcgggcagcgggtcgactacggccccctggaaaagtaacag
gttaccgttctagtagcgcttcggctgctgctgccaggcgcccttggagggacagggcgtcgcagcatggaagctcaaggga
aatcgctcttgccecaactcaactagagcctcagcctccgtgttccccggg

PL3-18, 2nd, ICAM-5 (630 bp, MICP5)(SEQ ID NO:5)

Cccgggagcatcggggcacttaccgctcggaagccaccaaccctcggggctctgcggccaaaaatgtggccgtcacgggtggaatg
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tcgatgggaagccacagccaagcgtgaagtgcgtgggtcggggggcaccactgaggggtgctgctgccgctggcacccccaga
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caaaacagtcgtcgtgagcgcggagtgtagcgaaggccaggcgggtagggagcagggtgccccacgggtccaggcactccctga
catcccccatggctgtttgcagcgccaccggagatggatgaatctacctgcccagtcaccagacgtggctggaaggggctgaggct
tccgcgctggcctgcgcgcgccggg

PL8-9 308bp, micp6 AF132611 MCT3 (SEQ ID NO:6)

Cccgggtggtgacctgccctgcccacaggccccgttccagcatcctcgtgacctgttggctgtcggccgggtgatgctggcggg
tgggtgctggttccgcggcatgacatcttcttggcagcgccttctggagctctacctgacctgggggtgctcacaggtga
gggccccctgttctctcctcgctgggttgggggtcgggggttcttctgcaagatctgtcctcgggttccctatgagggacagtctc
aagtcctcggctgggttcccggatctgctgggttccccggg

FIGURE 6b

PI8-17 548bp, micp7 pax5 (SEQ ID NO:7)

Cccgggaatccacagccacatttccgattgtggcgaaatctgctcagtggtctgcgatgtccagttgccgccggggggcccccttcc
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tcacttccaaaactgcattgtccggcgggcccaggagctctctacggacgcgtcccgcctgagacttccctcagccacccgctgcagg
cccacggcttcagtggttaggcccagcagctgaaccaactcaaggctgggggggaacaggaggaggcttgagtctggcccgaag
agagagggtggacatgccacacctctgctcggtctctgtggtctgatttctctctggaatcaagtcctggggctctgggactccaca
acgtctcagggtcaggggaatgcgattccacttacgggcccggggtaagggtgtctggaactcccgccaatctccagaaactactgag
atgttctgctctgcccggg

PI3-50 255bp, micp8 ppENK (SEQ ID NO:8)

Cccgggaaccgcgaggcgatctgagtcgctccacgtctacctaagctgtcgccgggaggggcgggggccccagaaaggagca
ttctgcgggttttctcgcacatccctgctgaggtctgcgcggcgagggtcctgccgaggggaccccggttgcgccaggcagg
ctcgaagcacgcgtccctctctctcgcagtcctatggcgcggttctgacacttgcacttggtctgttgcctggccccggg

PI3-3 431 bp, MICP9 (SEQ ID NO:9)

Cccgggcagagctcggagcgcctccatccccggaaccaggggactccctggagtgtccggtccaggctacgatcaggcgccc
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gaggatccacctcccaataccccgactcccagggtctgaccaagaatggaggtgcccccttctccaggcctcagccctctgagcg
ccgagggccggcgctacaggtccccgcgcgtggcggaacctctcattcggttccctcacgtcacccgctgtccggcgctggga
actgggctcctggaatttctctctggggctgacagatggccctcttttcttctctgcggcagcctcgcccatcccgggtcccggg

PL3-14 MICP10 (600bp) (SEQ ID NO:10)

Cccggggacggggaggaggagggtgcccggatgtgaaccggggaaggcagctggggctggagagcagcgcggaaggg
ggcccaggagctggaagaggggccaagaggagggaagggtggcgggcgacggggagaggaaagaaaaagggtgtctt
ggcggtggccttgtaagagaaaggggcaagggtataattgacaaggcactgaaagtattgaagtcagagccttgggaaggatcta
ccgaactctcggcggtccacgcggggacagacctcagcccgtgagccttgagctccacgcggggacagacctcagcccgtgagcc
ttgagctccacgcggggacagacctcagcccgtgagccttgagctccacgcggggacagacctcagcccgtgagccttgagctcca
cgcggggacagacctcagcccgtgagccttgagctccacgcggggacagacctcagcccgtgagccttgagcccagaaggagtgg
cagcctcaggacgtttgccaggtggcctggaatgtgagggaagcctcagccccgccagggaacagagctggcgctgagttcccggct
cggccccggg

PL3-23 359 bp, MICP11(SEQ ID NO:11)

Cccggggcgacggggcgtgagggtgggtctcatcgcaggggcgccgggagcctccccgctccgctagctcaaccaaggaccg
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ttcagctgagcacggcaatgcgcagacgtcagctctcactgctcatccgatctgtaacctgaggtgagcccgaagaccgctgc
cgccggcgccaccccagcgcggtccgctgaggatggaaacagcaagtgcgcgccggccaggccgccacctctccctctcca
acagccccggg

FIGURE 6c

PL3-25 370bp, MICP12(SEQ ID NO:12)

Cccgggaggtagcgggagattgcacacgcgacctgcgagttccgaactttggaagatcgtgacccggagagacccttgggagga
gagggccggccacctctaggggtgctgttttttaagggtcaaccaggacgctacgggaagcacctggcgcaccttggaaacagt
ggcttgggtggccaccgcaacgcctggcgggaagggaatggcggggcatcgtgtgcctaatggaccccgacagacccgccccaa
tccgagggggcgatgagctcagaggacctgcccaggacgctccttccactttccaggaaaaccgacggcgtgcgcacctccgtgt
cctcgcggagctgggggtccccggg

PL3-32 324bp, MICP13(SEQ ID NO:13)

Cccgggctgggctgtgccagcccggcctgccagtctggccccattctcgtacggaggatgcggcgctggggcctcgaagc
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tctcagactgaagtgcgactccgcgttcagaggcgctgggctgctgaacaccgggagctactacgagcacgtgaaggtagctgt
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PL3-49 392bp micp14(SEQ ID NO:14)

Cccgggaaagacctcgagagaccttctcaacacgtctccaggccagattcccctaccatggctcgggagcaatgacgcgctcccc
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gggcgcgctcgagacaccgagattcccgctcaccgagagccttgaggccttcgtctcctgcatggcctagagaccaatctcgacct
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gggttcttcttccactcgatgaatgcctgtctccccggg

PL8-1 358bp, micp15 AP000913.2(SEQ ID NO:15)

Cccgggagaggcgacagcctcatcgtttatttctcccttgaccatttgttcagcgacttccccctcgttcagcatccaggttcttacg
gtacagtccccagccccgcctcaccagcgcgacatttgcctgcctaccactcagacacagtgcccttttcggttcttcaacttg
ctaagcgttttctatcgatalctgcaggtaacagatggcacgctctcaaatagggtaatcgaggaggggttaataaaggaaactatttc
aacagcggagtaggcgttagggactccagtaggagtagggctgtgtcccaggatactaacagcagggcgcccttggcgccccggg

PL8-5 545bp, micp16(SEQ ID NO:16)

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ggccgcggcgccgcgctcctcatccggg

FIGURE 6d

PL3-16 MICP 17(510 bp, MINT 20) (SEQ ID NO:17)

Cccggggggcgctgaggttgccttctcaggcggaggaggcgaaacctgtagcccgacaacgcgggcttcgattttgaggagcttc
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agataactcgatacaggaacgcacaggcagcctgaaagcagcccaggatctcgacaggggaagggaagacctgtccctttgcc
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cagctcctcacgcataaagatgtcgggtagtgagtcttggcgaagctcctcctcaactcgttgagctgtcgggggtgaagcgcgtc
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PL3-8 386bp, micp18 AC005998(SEQ ID NO:18)

cccgggaaacagttcaggacgtcaagaccagaagcgggagcaaacccaaaaggagctccaaggaggtgtgtgtgggagagcc
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PL3-33 514bp, micp19(SEQ ID NO:19)

Cccgggctgaatggtagacgttctggcgccgggcagcggccaccggctgggtccacttccgcgcgacccccctaaactgtgttcta
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ctggcgcttctgttctctcgtcgttggctggctcagctggccctccacagctcggagcaaggccatagcaggagtgaggtat
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ggatcgagctcctccttgggggtgccccagcttggcggttatttgcctcgcgccaggtctggcnacggtcaccgggcccagcggggag
ggacggacggcaggtgaccagcctctgctgtgaagaaattctgcgcgcccgagctgtccctaatacatcccg

PL3-51 279bp, micp20(SEQ ID NO:20)

Ccggggatcgggagcttggagtgagngctcggcgtagcccgtaggagccccgcgggtagagcggcgctgccccctcgtccg
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ccgggcagggcagagcaggggtgaaaggagagacctgtaatgacggcgggatttgggtgcggagggttcgagggaggggccc
gcaacctgaacaattgcattcccg

PL8-21 422bp, micp21(SEQ ID NO:21)

Cccgggtctggcttggctcgcgccgcagatcccgttcaactcagctgccaccaagtgcgccttttctcttgattgcgatttgc
cgaatttccagttgaggggtggttcggcgctcagccagcctcgtccctcgaagacgcggccttggcttaggaaccttcaggtgggtgtt
ggcgcgagtggccctagttccctagaattcgtttgcctcccgccctcagccgctggtcagcgagctcgcgagaacgcagctgg
gcagtcgggacggctcctcggcgcttctagggagcagtcgaagggttgcgaggactgccagggtcctcctcctaggttccac
actggatggccgtaactcagtcgttgacggcgacagccagggccttgatggactgtgcaggtcccg

FIGURE 6e

PI3-18-2 mint32, 464bp, micp22(SEQ ID NO:22)

Cccgggtacctgcacagctcgetccctcccatccttcgggtcttcgctcgaacgtccgctcctcggtgaggccttccctggacaacgca
tttgaacgtaaccccaaggcaagaagccaccttcaggcgcgcagccgaagccagtgccaaggaggccggagactcgggtgcc
cgcgcacccgaaaacagcctctgaggggtcctctgagcatccttcagcgtgtttgggaggcaaacctgttgactagctcttgagagg
agtggctagaggaatccaggcgggggaaggggacgggtggactccaggagagtgtaatttacaaaggcggggggcggggacgcca
ggtccgagtcaggactctgcgcggacgttcgccgccctttcagggtccctgcccggctcgtlaccgcgcgggtccggaga
acctctgagcaccggccccagccccggg

PI3-4 257bp, micp 23(SEQ ID NO:23)

Cccgggatcggtgcccgttagtgggcacaggacgccgggtgtccgaagggtgcctggagatgcaactgaccttggcgggcatca
gaatgacgagtggcagcagcaggagcggggtgacgaacaagatcacgaaggacttgaacttggagacatagctcagcggcagg
ccatcgcgccgggaggaggactggcgggcgagacgagtgaggggcagctagaggcgccgcgggcttaagaaggggccacagtc
cccggg

PI3-5 350bp, micp24(SEQ ID NO:24)

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aagagctgggacccccgcgaacttcgggatcggtgggtgaggtgggcaggcctgatgctcagggttctgtccgggaagtcca
ggctctggacaacctctctccagctcgcgcgggtaccacggcccagctccacctggggaaaccccttggcgtggctgttt
cgttacaaagtatcctggtagagtgggcatgaaggcctcgaggcagtgagtaaatctcatacttctgttcttgggtggaatcctggatccc
ggg

PI3-6 337bp, micp25(SEQ ID NO:25)

Cccggggctgccggctggagcccggcagattcgctgcgcagcactgccccctggatatccagcggcgaagtgcacccctccgcag
ctgcaaggctcctcctgggctgcgcgggacagatttttctcttcttggtacacgcctaacagagaagctatcccaggggacctca
agaagtcccccaagccgtactcaaaagcctttctcctctctcaagcgtcacttcccaaaaggagaccggaccctgactgcct
gagccagggtcccagcatggtccgaaccttctcgactccggcatccacctccaggctgacgtctaccggg

PL3-11 MICP26 (229 bp) (SEQ ID NO:26)

Cccgggggaaagagatgagtggaatcgtgggcccggacctgcaaggagagactcggcgggcaccttgcttggctgaggtcgtct
gcagggaagcggacttttctctggctcaggatgggaaagacaggggatgcctgaagtcacggggacttctgttccatctctgccccgt
tctccaggccccagttttctgcttggtagattttcaacgtatccggg

FIGURE 6f

PL3-13 MICP27 (427 bp) (SEQ ID NO:27)

Cccggggctgctgaccgagccccagggcagcccgccttccccctcctgaagcccgacgttcttcatggctccgtctaccggttc
ggagacccgctggacttttcgccctccggaacctatatgaggaagcaaatcgcgtccgccacagcctccaactaggaaactccg
cgactctcagccccctcagaagagaaacggagacgcgccaagcaagccgttacacggactgtgcacgcgcctccggtgtccctgcg
cgtgacacaaatttgccccgagggagctccatgtgcctgagtcacaggagccctagatgccagcgacagcttgtaccaggcctgc
gacgccaatggcggggagtcggcggagctcaggacactgacgacgggcctgggggaaagcggccccacacagcccggg

PL3-19 (470 bp, MICP28) (SEQ ID NO:28)

Cccggggacagggggacccccagatgctgcacggctgacaggccaacgtggcagaagctccagcttcacaggaagccagtgacc
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ggaggcctggctgggctctgagagcatcagactgattatcgttaagaaaataatctctgcagacacattccttctagaagcagggggaca
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gctcaggggctgggcagggacagcgtgtggcaggggcacagctgagacaggagcctcaaagcgacaccaaccgcagctgaag
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PL3-20 (bp 264, MICP29) (SEQ ID NO:29)

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gctctagggtgagccagtcgcctccttcttaagattctggtcacagcaggggctgggttttaaggcaggttttaagggtgttctctac
agacaccgctgctgctaccttgccttcagcgcctgggcacagccaggggcagcgcgagagggaggcaacgagagggttccccg
g

PL3-21 (bp 371, micp30) (SEQ ID NO:30)

cccgggaccccaatgccaggggaggggcctgcaggaccccagcgggtgggcgagttgtgtcctgggtcaccttgtgttcgcagcgtg
gcgggtggcaggagcccagcgcgggaggacatttcatagcctctacagtggagaaacgccccccaccgacgtgcgtcatctgtg
tccccgtgttgcggggctctggtatccacttgcgcgcctatgtggtggggatccaccagagcccagcgtcaagttatagggcg
cttactcagcgtcagccaagaccaggaagcgcttcttgcgtttaggagacgtctgcaagagataaaaagctagcccacgatccac
ccacaatcctcgtgtccccggg

PL3-22 bp 179, MICP31(SEQ ID NO:31)

Cccgggaactcgcggcacccactgggtattgtcgggacccagcaagctaggaacgggggtgggtagagcatccttcgggcactg
ccgttcgtccccaaaagaagaccaccgcgggggtcccagggccacggcgaggacgggcactggtcagattccggacaggcggctc
ggccccggg

FIGURE 6g

PL3-34 445bp, micp32(SEQ ID NO:32)

Cccgggctgtgaccagcgaattcgggccccgcaggtgcagctgataggagaaatccggctccgggagcgaaccagcggcgga
aggcgggctccgcgccagcgggccttggactgcaagaaggcgaggatgcgcgcgtacttcgtgtccttgggtcctcgtcacgtg
tgagtatcgaccaggtcctcgtcacgtggtaccatagtggagtagttggcaaacctcgtagagtctgctggaggaacgagccgc
cgtaggacggacacacctgagtgccctccacgcgagcccaagcgggtgcagggcacctccaccacattctggccaaagttc
ccatttgaggcccgccctctctctgcgcagctcttagagactggcgaggcacgcgcaaacgccctcttccctgagacctgacccacc
caccacccggg

PI8-2 357bp micp33 AC002133(SEQ ID NO:33)

Cccgggggagccccggacccccgacccccaggcgcggaactggcgaggccccaggagctccatttatagctcagttccac
tgagcgcagtcctcttaggacctgggctgagcaagttcttccactctctccttccctctctcacccttgcctgcccccaaccccg
gcaggcgcgaggtgtccaaccagccgggacccccctcctcctgaacccaggtgtccggctccagaccccaattgagctgggg
gcgcccccccgccgggggatcccgccctgcgtccccattcaccgcgtctcagcccgaggagtttcaacgggaagaggcgga
gtccccggg

PI8-3 312bp, micp34 AC005826(SEQ ID NO:34)

Cccgggaggagagttggggcttgggggacgccgtgaactccatggccccagcacgcggctcctggccagggacggggctcgcg
aactgccgtccagattccccaaaggagacaaagacccgaaacacagctcaaagttccgagagcagtcacagcggggccaggac
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PI8-6 372bp, micp35(SEQ ID NO:35)

Cccgggagcggctcgtggeggegccaggccacgctctctcattaacatcccgctcccggtggcgaggggagcggccaaagt
tcctcgcaaagtggcgagcgaaggagcgctgagcactgacgtctgggctggggaggagcgggtcgagcggagcggagaggg
gacagagggaaaggaggcggtgtcttctcaggaatttgagctggggatctgcatcttgccattgcagtcctttagcatcctcgcc
ggccctgagcggctggaggctcgaggtgcgcccctccagggtgatgcgcgtcctgctcgccgttctgggacgtcgggga
caaaagtggaggagcgggagagcccggg

PI8-7 399bp, micp36 AF132611(SEQ ID NO:36)

Cccgggctgcgagcgcggctcctggattccagcctcccgcccttccaggcgtggaatggacacggacgcccacagtggcgggc
caggtagtgcggagtcgggggccaggccgcggcgccccgcgcctcatcattaccttgcccttagctatcaattccatgatgtagcc
aaattcactcctcctccagactccgacatgtttacacccctcacaactctggaggaccgacgcgggtgatcgaatttgcctttcttt
ctcttttctgttttagctgagtttggcgagctccccgcccataagctgttaaccaggaaaagagggggaagcgccggggaaagcaag
aagcgggcttgggtgaaatgaaggccatcgagggtccccggg

FIGURE 6h

PL3-31 307 bp, MICP37(SEQ ID NO:37)

Cccgggccccggtgcgcaccggtgccgacttggcagccgccctgtgcgctcgacgaaagggtgagaaggaggcaggagtgcagg
cggaaaggagtgggcaatcagcggcggggacgagagtgtgtcttcggggaaaccaagtctgagtgagcgtgaaggggagtgtgcg
gagcgtgccgtgcaccccgagccccgcctcattgcctctcgcctctctccacctgccccatgatctgcgccagggaccggctctct
cccgtccgcagctgtctaggtggccgttctggttctggggacccccggg

PI3-37 331bp, micp38(SEQ ID NO:38)

Cccggggccacctctgaggcatgaaccagagacgcgcgccctggtctgggaaagcaggaccgtgcgccagcgcctcaggg
gtagaggcgggaacaggccccgcgtcgtttgctggcggcggggaagggcgatctgacgatcagggagttgcgccctctctctgg
gcctcgtgaaggaaacaagagcaattacagcgtggccggccacgtagtctggggctaggtgggcccattgctccgggcccggg
ggctggagcgcggaggtggagagggaggaggacctccgcggctccaggtctccagctggaggctcacgcccggg

PI3-43 304bp, micp39(SEQ ID NO:39)

Cggggccccggtgcgcaccggtgccgacttggcagccgccctgtgcgctcgacgaaagggtgagaaggaggcaggagtgcaggc
ggaaggagtgggcaatcagcggcggggacgagagtgtgtcttcggggaaaccaagtctgagtgagcgtgaaggggagtgtgcgga
gccgtgccgtgcaccccgagccccgcctcattgcctctcgcctctctccacctgccccatgatctgcgccagggagccggctctct
cccgtccgcagctgtctaggtggccgttctggttctggggccccggg

PI3-44 307bp, micp40(SEQ ID NO:40)

Cggggggtcccagcaaaccagaacggccacctagacagcctgcggacgggagaggaccggttcctggcgcagatcatggggc
aggtggagagaggcgagaggcaatgaggcgggggggctcggggtgcacggcacgctccgcacactccccccagcgtcactca
gacttggttccccgaagacacactctcgtccccgcgcgtgattgccactcctccgctgcactccagcctccttctcacctttctgc
gagcgcacaggcgggtgccaagtcggcaccggtgcgcaccggccccggg

MICP41 also known as PL-3-2, 43(SEQ ID NO:41)

Cggggccccggtgcgcaccggtgccgacttggcagccgccctgtgcgctcgacgaaagggtgagaaggaggcaggagtgcaggc
ggaaggagtgggcaatcagcggcggggacgagagtgtgtcttcggggaaaccaagtctgagtgagcgtgaaggggagtgtgcgga
gccgtgccgtgcaccccgagccccgcctcattgcctctcgcctctctccacctgccccatgatctgcgccagggagccggctctct
cccgtccgcagctgtctaggtggccgttctggttctggggccccggg

FIGURE 6i

PI8-19 479bp, micp42 3' of FLJ00083(SEQ ID NO:42)

Ccgggttcttggcttgaacctgtttctccctgttctgccaggcatgctgggtcgggaaggtgtgtngctgtnggccttaggtgggtg
cagcccggtcccacgtcacggcgagctctgttctctgggtctggggacagtgaggtcatcgctgcccaccttgagctctggctccttcg
ggtacctgttccctctcccagagagacccccagctgcatgcaggcctagtgggtctccacggcgagctgggtcccaggctacctgggt
tgcacacctctgtgggtccggctgcccctctcgagccggcgctacttctcaccctcttgcccctgcattccacgtctcatggagccaa
cgagagcaggggggttgagccctgtggaaatctggggaggcactgcttctccctccatgtgagcagcttaccacgcctggggtcag
tgcttacgtccacggcgccctggccttcccggg